

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of

Mutsumi KIMURA et al.

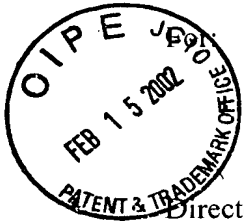
Group Art Unit: 2164

Application No.: 09/077,029

Examiner: Walter Malinowski

Filed: May 18, 1998

Docket No.: JAO 40499



MATRIX TYPE DISPLAY DEVICE AND
MANUFACTURING METHOD THEREOF

FOURTH INFORMATION DISCLOSURE STATEMENT

Director of the U.S. Patent and Trademark Office
Washington, D.C. 20231

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Sir:

Pursuant to 37 CFR §1.56, the attention of the Patent and Trademark Office is hereby directed to the reference(s) listed on the attached PTO-1449. Unless otherwise indicated herein, one copy of each reference is attached. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the reference(s) be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

☒ 1. This Information Disclosure Statement is being filed more than three months after the U.S. filing date and after the mailing date of a Final Rejection or Notice of Allowance, but before payment of the Issue Fee. Attached is our Check No. 127852 in the amount of \$180.00 in payment of the fee under 37 CFR §1.17(p). Please credit or debit Deposit Account No. 15-0461 as needed to ensure consideration of the disclosed information. Two duplicate copies of this paper are attached.

☒ a. I hereby certify that no item of information in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to my knowledge after making reasonable inquiry, was known to any individual designated in 37 CFR §1.56(c) more than three months prior to the filing of this Information Disclosure Statement. 37 CFR §1.97(e)(2).

☒ 2. English-language abstracts of the non-English language references are attached hereto.

Respectfully submitted,

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Date: February 15, 2002

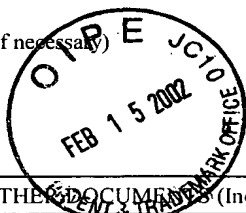
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Form PTO-1449 (REV. 8-83)		US Dept. of Commerce PATENT & TRADEMARK OFFICE		ATTY DOCKET NO. JAO 40499		APPLICATION NO. 09/077,029	
INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)				APPLICANT(S) Mutsumi KIMURA et al.			
				FILING DATE May 18, 1998		GROUP 2164	
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)							
		EBISAWA, F. et al., "Electrical Properties of polyacetylene/polysiloxane interface", <i>J. Appl. Phys.</i> , Vol. 54, No. 6, June 1983, pp. 3255-3259.					
		KIDO, Junji et al., "Organic electroluminescent devices based on molecularly doped polymers", <i>Appl. Phys. Lett.</i> , Vol. 61, No. 7, August 17, 1992, pp. 761-763.					
		VAN SLYKE, S.A. et al., "Organic electroluminescent devices with improved stability", <i>Appl. Phys. Lett.</i> , Vol. 69, No. 15, October 7, 1996, pp. 2160-2162.					
		ZHANG, C. et al., "Blue electroluminescent diodes utilizing blends of poly(<i>p</i> -phenylphenylene vinylene) in poly(9-vinylcarbazole)", <i>Synthetic Metals</i> , Vol. 62, 1994, pp. 35-40.					
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EXAMINER						DATE CONSIDERED	
Examiner: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							

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				FILING DATE May 18, 1998		GROUP 2164	
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	
		5,132,248	07/21/92	DRUMMOND et al.			
		5,214,350	05/25/93	REMEC et al.			
		5,276,380	01/04/94	TANG			
		5,326,692	07/05/94	BRINKLEY et al.			
		5,593,788	01/14/97	SHI et al.			
		5,610,932	03/11/97	KESSLER et al.			
		5,854,139	12/29/98	ARATANI et al.			
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	
		JP-A-62-31174 (w/English abstract)	02/10/87	Japan			
		JP-A-62-85224 (w/English abstract)	04/18/87	Japan			
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)							
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		MORRISON, Robert et al., <i>Organic Chemistry</i> , Fifth Edition, 1987, p. 637.					
		BUDAVARI, Susan et al., <i>The Merck Index An Encyclopedia of Chemicals, Drugs, and Biologicals</i> , Twelfth Edition, 1996, p. 357.					
		ADACHI, Chihaya et al., "Blue light-emitting organic electroluminescent devices", <i>Appl. Phys. Lett.</i> , Vol. 56, No. 9, February 26, 1990, pp. 799-801.					
		BURROWS, P.E. et al., "Color-tunable organic light-emitting devices", <i>Appl. Phys. Lett.</i> , Vol. 69, No. 20, November 11, 1996, pp. 2959-2961.					
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EXAMINER					DATE CONSIDERED		
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